



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "IR-631" Aluminum Storefront System – S.M.I.

APPROVAL DOCUMENT: Drawing No. **1458**, titled "IR 631– Small Missile Impact Store Front System", sheets 1 through 4 of 4 prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 11/02/05 with revision C1 dated 09/01/11, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 10-0907.16 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 11-0915.07
Expiration Date: July 27, 2016
Approval Date: October 27, 2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
Drawing No **1458**, titled "IR 631- Small Missile Impact Store Front System", sheets 1 through 4 of 4 prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 11/02/05 with revision **C1** dated 09/01/11, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an IR-631 inside glazed aluminum storefront system, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-G049-0501-10**, dated 05/26/10, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA#10-0907.16)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an IR-631 inside glazed aluminum storefront system, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0049-0313-05**, dated 03/01/05-05/06/05, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA No. 05-1227.04)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 11/09/10 and 09/01/11, signed and sealed by Warren W. Schaefer, P. E.
2. Glazing complies with ASTM E1300-04.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-0915.07

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E. MATERIAL CERTIFICATIONS

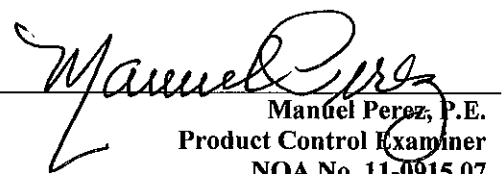
1. Notice of Acceptance No. **09-0223.05** issued to **Solutia, Inc.** for their “**Saflex Multi-layer Glass Interlayer**” dated 04/08/09, expiring on 04/08/14
2. **Exterior Fixed, Dry and Wet Glazed Gasket: TREMCO Part No. TR-4014P (Kawneer Part No. 027-850)**, EPDM Dense Rubber Extrusion with 60 durometer ext. glazing gasket complying with **ASTM C864** Option II specs., **ASTM D412**, 1500 PSI, **ASTM D395B**, 22 HRS 158°F.
3. **Interior Wedge Dry Glazed Gasket: TREMCO Part No. TR-4305P/S (Kawneer Part No. 027-851)**, EPDM Dense Rubber Extrusion with 70 durometer glazing gasket complying with **ASTM C864** Option II specs., **ASTM D412** 1600 PSI, **ASTM D395B**, 22 HRS 158°F..
4. **Interior Wet Glazed Gasket: Fasset SSG Weatherseal Spacer (Kawneer Part #027-575)**, Dense Silicone Rubber Extrusion (Black) with 60 durometer compatible with silicone glazing.

F. STATEMENTS

1. Statement letter of conformance to FBC-2007 and FBC-2010, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 09/01/11, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 09/01/11, signed and sealed by Warren W. Schaefer, P.E.
3. Laboratory compliance letter for Test Report No. **HTL-G049-0501-10**, issued by Hurricane Test Laboratory, Inc., dated May 26, 2010, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA#10-0907.16)
4. Laboratory compliance letter for Test Report No. **HTL-0049-0313-05**, issued by Hurricane Test Laboratory, Inc., dated March 01 through May 06, 2005, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 05-1227.04)

G. OTHERS

1. Notice of Acceptance No. **10-0907.16**, issued to Kawneer Company, Inc. for their Series “**IR631**” Aluminum Storefront System – S.M.I., approved on 12/09/10 and expiring on 07/27/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-0915.07

Expiration Date: July 27, 2016
Approval Date: October 27, 2011

GENERAL NOTES:

1. THESE STORE FRONT SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT STORE FRONT SYSTEMS.
5. THESE STORE FRONT SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. WHEN GLAZED FOR SMALL MISSILE IMPACT, THIS STORE FRONT SYSTEM MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
7. ALL ANCHORS SECURING STORE FRONT FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

CORNER & FRAME END CONSTRUCTION:

FRAME CORNER: THE VERTICAL FRAME MEMBER RAN THROUGH WHILE THE HORIZONTAL FRAME MEMBER END WAS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER USING THREE (3) #12 X 2 1/4" SCREWS & SEALED WITH DOW 795 SILICONE SEALANT.

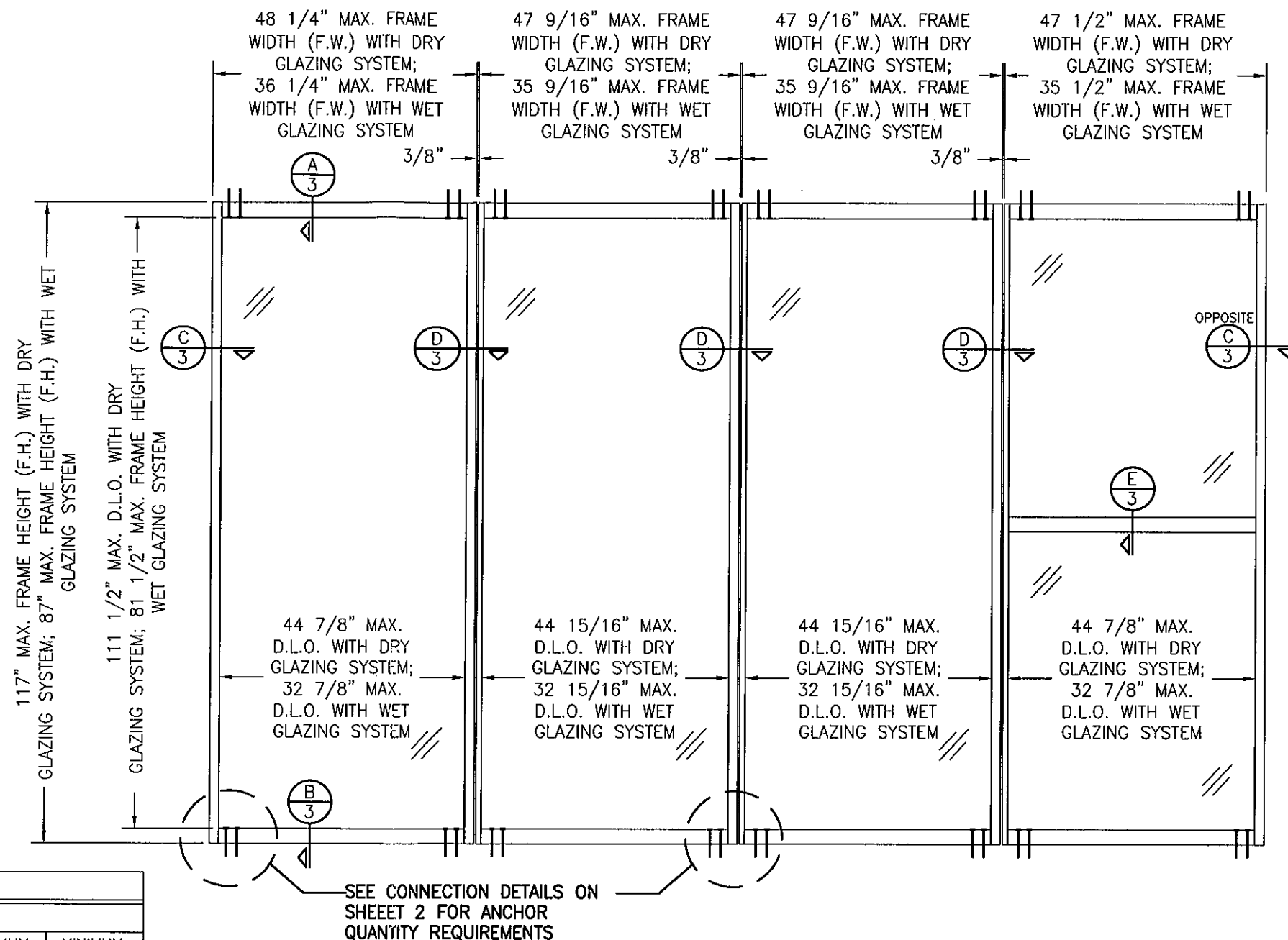
HORIZONTAL (MID-RAIL) END: THE VERTICAL FRAME MEMBER RAN THROUGH WHILE THE HORIZONTAL FRAME MEMBER END WAS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER USING TWO (2) #12 X 2 1/4" SCREWS & SEALED WITH DOW 795 SILICONE SEALANT.

FRAME ANCHOR REQUIREMENTS TABLE

FRAME & SILL ANCHORS

ANCHOR TYPE	OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	2X_ WOOD FRAME OR BUCK (G=MIN. 0.55)	(1) 1/4" CONCRETE SCREW	1 3/8"	3/4"
B	MIN. 16 GA. 50 KSI METAL STUD	(2) 1/4" SELF DRILL/TAP SCREW	FULL	1/2"
C	MIN. 1/4" THICK A36 STEEL	(2) 3/8" H.H. MACHINE SCREW	FULL	3/4"
D	MIN. 3000 P.S.I. CONCRETE	(3) 3/8" CONCRETE SCREW	2 3/4"	3"
E	MIN. 1/8" THICK A36 STEEL	(2) 1/4" SELF DRILL/TAP SCREW	FULL	1/2"
F	MIN. 3000 P.S.I. CONCRETE	(4) 1/4" CONCRETE SCREW	1 3/4"	3"

- (1) CONCRETE SCREWS INTO WOOD SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
- (2) SELF DRILLING/TAPPING SCREWS & MACHINE SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL
- (3) 3/8" CONCRETE SCREWS INTO CONCRETE SHALL BE POWERS WEDGE-BOLT OR HILTI HUS-H SCREW ANCHOR (STEEL OR S.S.)
- (4) 1/4" CONCRETE SCREWS INTO CONCRETE SHALL BE POWERS WEDGE-BOLT, ELCO ULTRACONS, ELCO CRETE-FLEX, HILTI KWIK-CON II OR ITW RAMSET/RED HEAD TAPCONS (STEEL OR S.S.).

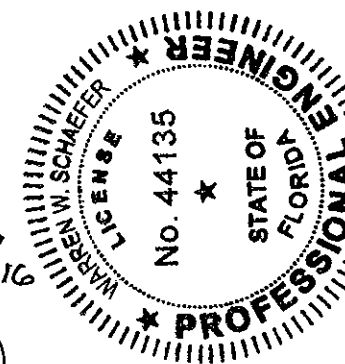


SEE CONNECTION DETAILS ON SHEET 2 FOR ANCHOR QUANTITY REQUIREMENTS

EXTERIOR ELEVATION MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY SCALE: 1/2"=1'-0"

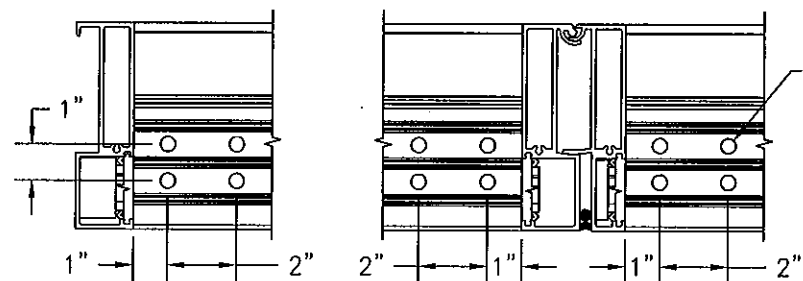
(1) ALLOWABLE DESIGN PRESSURE	
GLAZING SYSTEM	ALLOWABLE PRESSURE
DRY GLAZING	±95 P.S.F.
WET GLAZING	±135 P.S.F.
(1) SEE LOAD TABLES ON SHEET 2 FOR PRESSURE LIMITATIONS WITH RESPECT TO ANCHOR TYPE. LESSER OF PRESSURE IN ANCHOR LOAD TABLE AND THIS TABLE SHALL CONTROL.	

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 11-0915.07
Expiration Date July 27, 2016
By *Manuel Perez*
Miami Dade Product Control

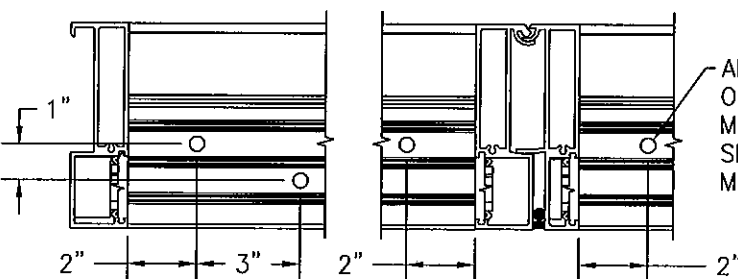


THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 11/02/05
DATE: 04/16/08	DATE: 11/09/10
BY: W.R.M.	BY: W.W.S.
REVISION DESCRIPTION	NO.
UPDATE FOR CODE COMPLIANCE	A1
ADDED GLASS OPTIONS & UPDATE TO CURRENT STANDARDS	B1
UPDATE TO CURRENT STANDARDS	C1
DRAWING TITLE: IR 631-SMALL MISSILE IMPACT STORE FRONT SYSTEM	
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION: By <i>Manuel Perez</i> Miami Dade Product Control	
DRAWING NO. 1458 REV. C SHEET NO. 1 OF 4	

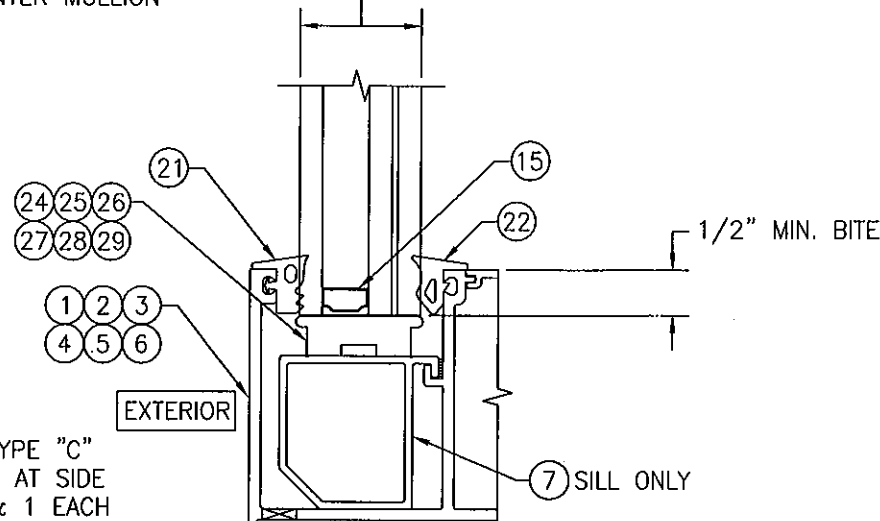


MULLION END CONNECTION DETAIL
(ANCHOR TYPES "A" & "B")



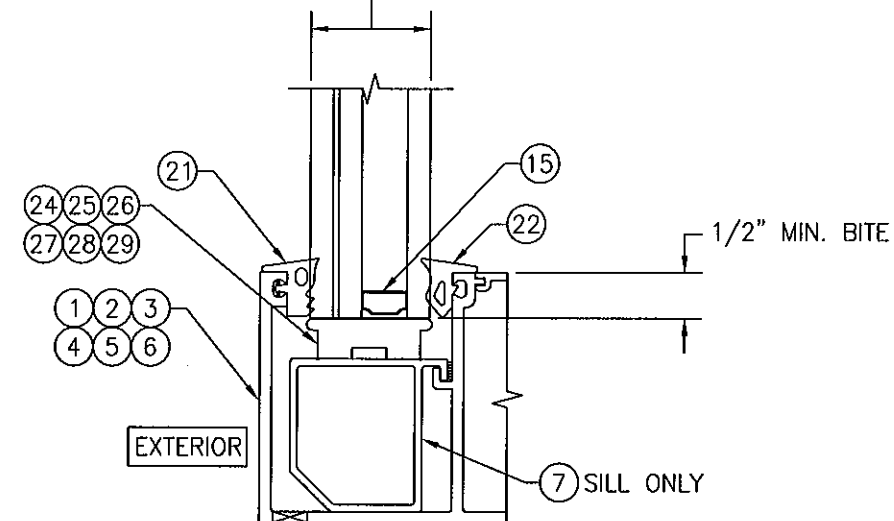
MULLION END CONNECTION DETAIL
(ANCHOR TYPES "C" & "D")

1 5/16" THICK LAMINATED I.G. SOLUTIA SAFLEX
GLASS WITH 1/4" THICK TEMPERED
OUTER PANE, 1/2" AIR SPACER, AND
9/16" THICK LAMINATED INNER GLASS
(1/4" H.S./0.06 SAFLEX IIIIG PVB/1/4" H.S.)

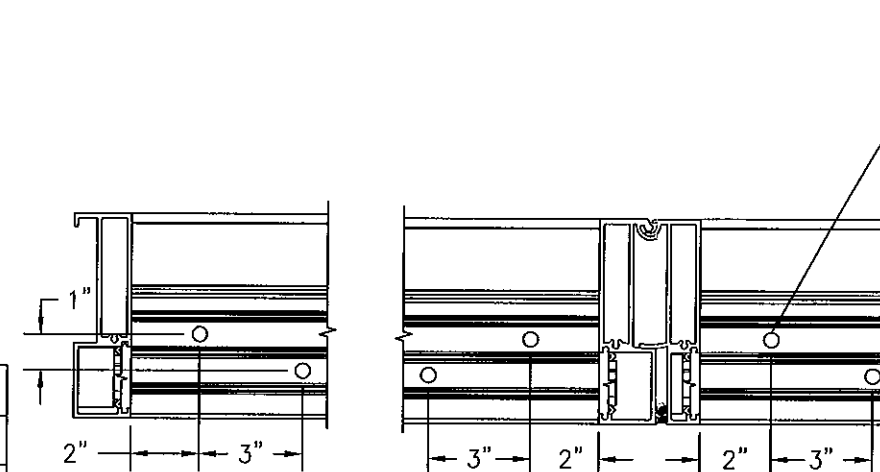


TYP. DRY GLAZING DETAIL 1
SCALE: 1/2 FULL

1 5/16" THICK LAMINATED I.G. SOLUTIA SAFLEX
GLASS WITH 9/16" THICK LAMINATED OUTER
GLASS (1/4" H.S./0.06 SAFLEX IIIIG PVB/1/4" H.S.),
1/2" AIR SPACER, AND 1/4" TEMPERED
OR HEAT STRENGTHENED INTERIOR

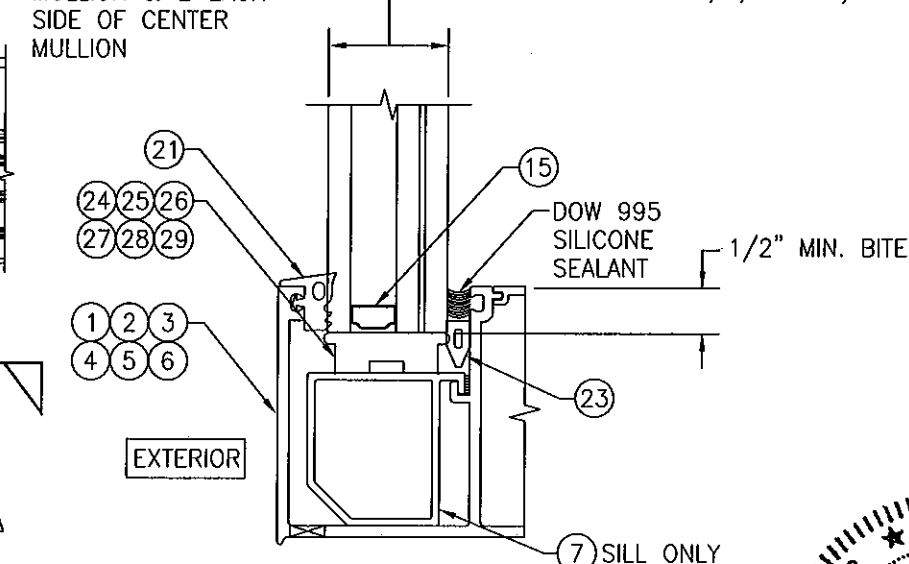


TYP. DRY GLAZING DETAIL 2
SCALE: 1/2 FULL



MULLION END CONNECTION DETAIL
(ANCHOR TYPES "E" & "F")

1 5/16" THICK LAMINATED I.G. SOLUTIA SAFLEX
GLASS WITH 1/4" THICK TEMPERED
OUTER PANE, 1/2" AIR SPACER, AND 9/16" THICK
LAMINATED INNER GLASS (1/4" H.S./0.06 SAFLEX
IIIIG PVB/1/4" H.S.)



TYP. WET GLAZING DETAIL 1
SCALE: 1/2 FULL

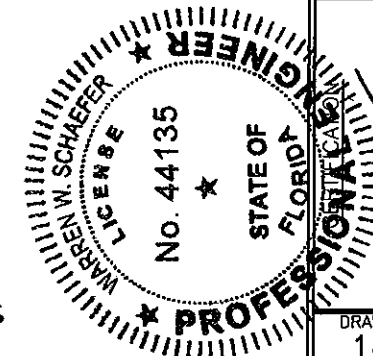
ANCHOR LOAD TABLE

(1) MAXIMUM FRAME HEIGHT (IN.)	(1) MAXIMUM FRAME WIDTH (IN.)	(2) ALLOWABLE PRESSURE (P.S.F.)		
		ANCHOR TYPE A & B	ANCHOR TYPE C & D	ANCHOR TYPE E & F
117	48	87.4	95.0	75.3
	42	95.0	95.0	86.0
	36	95.0	95.0	95.0
108	48	95.0	95.0	81.6
	42	95.0	95.0	93.2
	36	95.0	95.0	95.0
96	48	95.0	95.0	91.8
	42	95.0	95.0	95.0
90	48	95.0	95.0	95.0
87	36	135.0	135.0	135.0

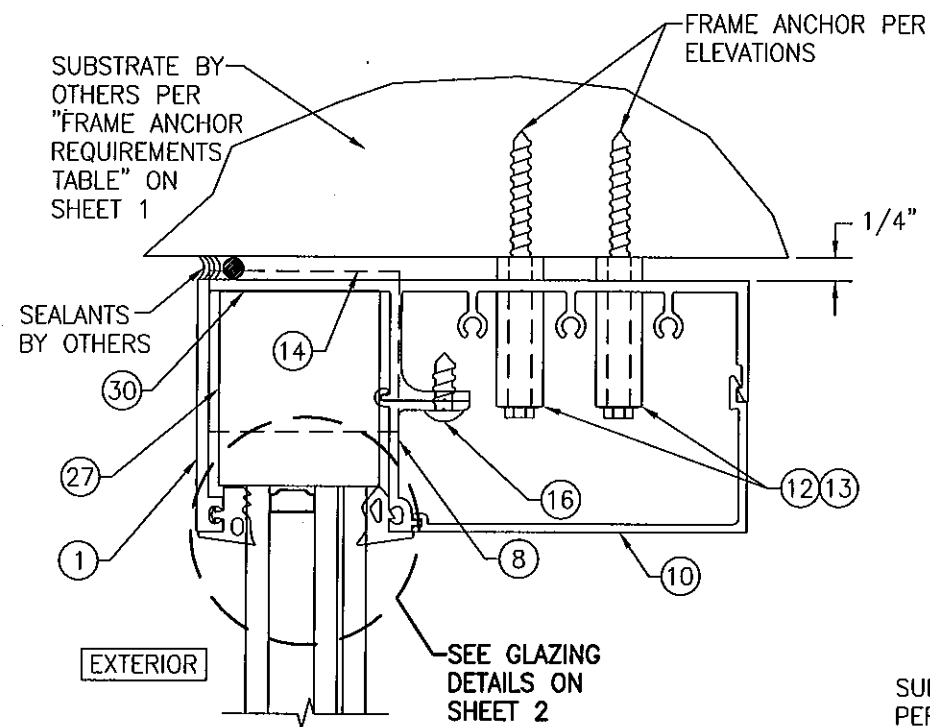
(1) MAXIMUM FRAME HEIGHT & WIDTH DIMENSIONS SHOWN ARE $\pm 1/2$ "

(2) NOTE: PRESSURES ARE LIMITED TO 95 PSF WHEN FRAME HEIGHT IS GREATER THAN 87" OR FRAME WIDTH IS GREATER THAN 36". PRESSURES ARE LIMITED TO 135 PSF WHEN FRAME HEIGHT IS 87" OR LESS AND FRAME WIDTH IS 36" OR LESS.

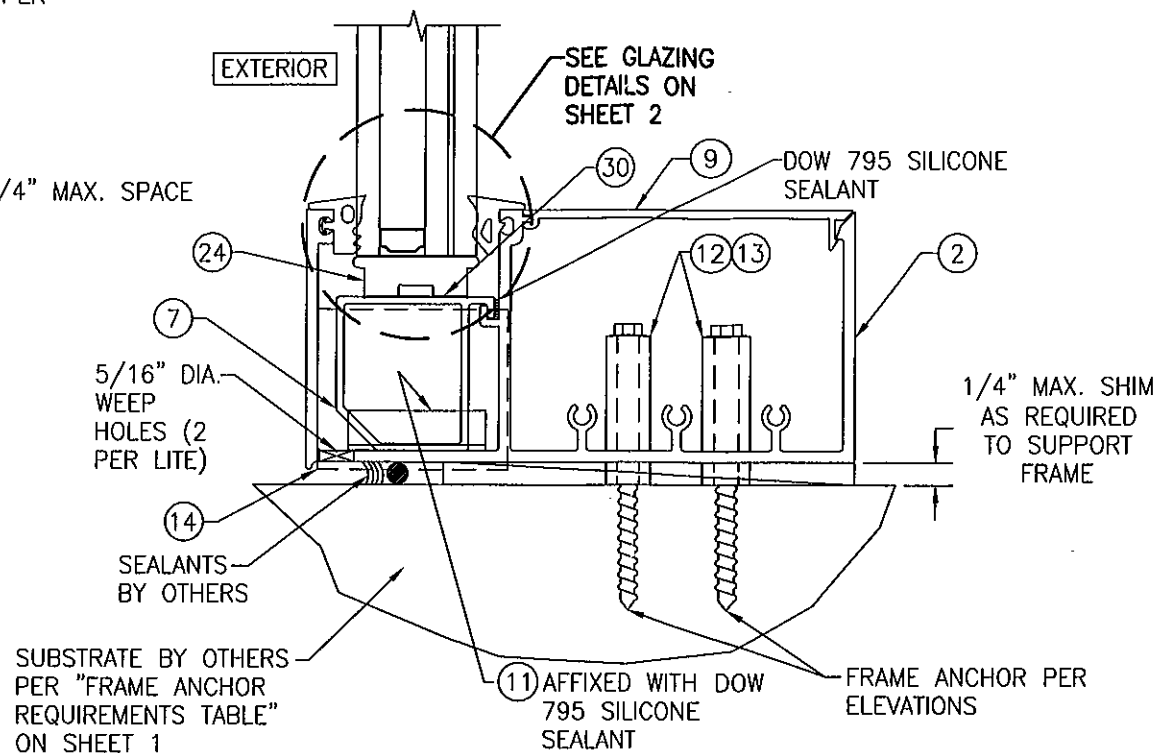
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-0915.07
Expiration Date July 21, 2016
By *Warren W. Schaefer*
Miami Made Product Control



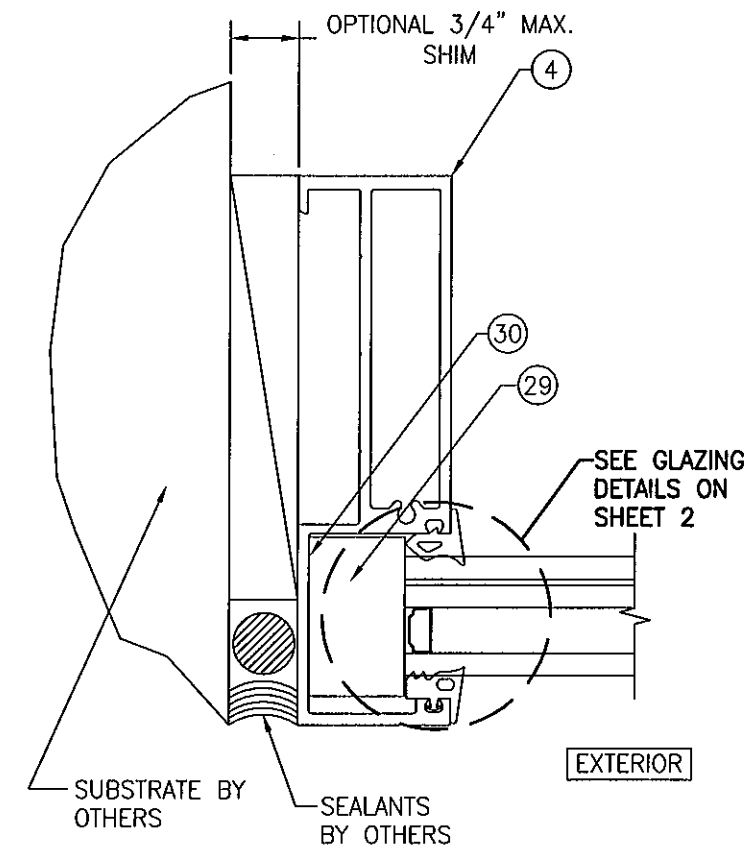
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 11/02/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: IR 631-SMALL MISSILE IMPACT STORE FRONT SYSTEM			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		SEP 01 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1458		REV. C	
SHEET NO. 2		OF 4	



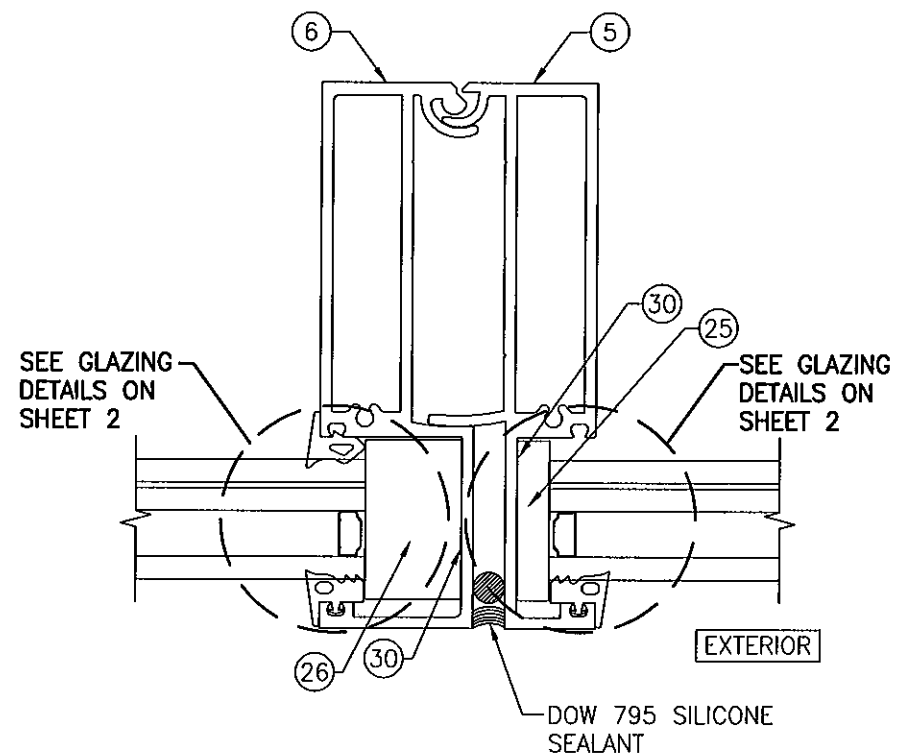
SECTION A
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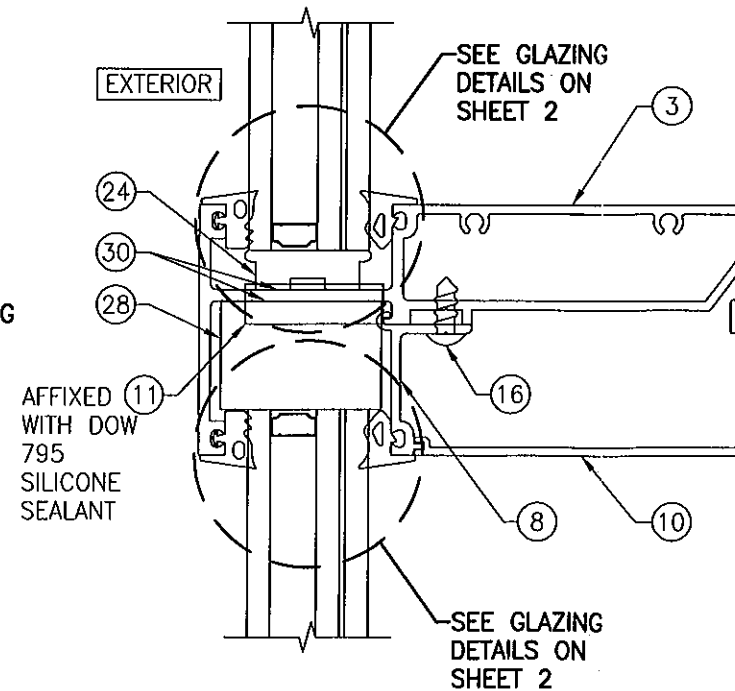
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SECTION C
SCALE: 1/2 FULL

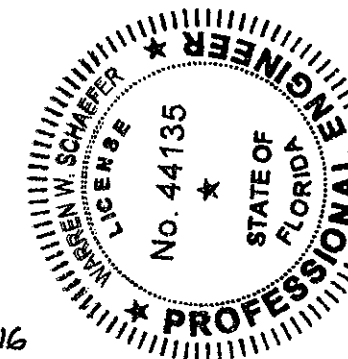


SECTION D
SCALE: 1/2 FULL



SECTION E
SCALE: 1/2 FULL

PRODUCT REVISED
as complying with the Florida
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DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/02/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE IR 631-SMALL MISSILE IMPACT STORE FRONT SYSTEM	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION SEP 01 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1458	REV. C
SHEET NO. 3 OF 4	

